

IN THE CLAIMS

This listing of claims replaces all previous versions and listings of claims in the present application.

LISTING OF CLAIMS

1. (Currently Amended) A computer implemented document classification apparatus, comprising:

a feature extractor that extracts a plurality of features from a document;

a classifier operable on the extracted features to process the document in a knowledge acquisition mode in which the association of a classification with the document is added incrementally to a knowledge base and in a document classification mode in which the classifier, using the knowledge base, is operable to determine a predicted classification for the document, the classifier being switchable between the modes under user control; and

a router arranged to route the document to one of a plurality of destinations in dependence upon the classification, wherein the classification has associated therewith a confidence value,

and wherein the router is arranged to compare the confidence value ~~is comparable~~ to a threshold, the router being arranged to make at least one of an automatic routing decision and a manual routing decision in dependence upon the comparison,

and wherein the threshold is adjustable to match a desired confidence value to allow transition from a state where manual routing is favored to a state that favors automatic routing.

2. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 1, wherein the classifier comprises a supervised adaptive resonance theory (ART) system.

3. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 2, wherein the system comprises an ARTMAP system.

4. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 2, wherein the system comprises an adaptive resonance associative map (ARAM) system.

5-8. (Cancelled)

9. (Currently Amended) The computer implemented document classification apparatus as claimed in claim 1, wherein ~~a destination~~ one of the plurality of destinations is a system administrator workstation where the router is arranged to route the document is ~~outed~~ for manual routing after the manual routing decision.

10. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 1, wherein the features are formed into a feature vector for input to the classifier.

11. (Previously Amended) The computer implemented document classification

apparatus as claimed in claim 1, wherein the features comprise at least one of classification-associated words and phrases which may appear in the document.

12. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 1, wherein the feature extractor is arranged to provide a measure of the frequency of occurrence of the features in the document.

13. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 1, wherein the destinations include a system administrator workstation to which the other destinations are connected, misrouted documents being sendable by the other destinations to the system administrator workstation for manual routing.

14. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 13, wherein the system administrator workstation is connected to the feature extractor and the classifier, the arrangement being such that a misdirected document, in association with an actual classification supplied at the system administrator workstation, is processed in the knowledge acquisition mode to add the association of the actual classification with the misdirected document to the knowledge base.

15. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 1, wherein the computer implemented document

P21834.A06

classification apparatus is operable to perform a rule insertion in the knowledge acquisition mode in which a plurality of features are input by a user to the classifier together with a classification with which the features are associated.

16. (Previously Amended) The computer implemented document classification apparatus as claimed in claim 1, wherein the computer implemented document classification apparatus is operable in the knowledge acquisition mode to process a plurality of training documents with associated classifications as a batch.

17. (Currently Amended) A computer implemented document classification apparatus, comprising:

a feature extractor that extracts a plurality of features from a document;

a classifier operable, using a knowledge base, to determine from the features a predicted classification for the document, the classification having a confidence value associated therewith; and

a router arranged to compare the confidence value to a threshold and make a decision to route the document automatically to one of a plurality of destinations ~~and~~ or to a destination for manual routing in dependence upon the comparison,

wherein the threshold is adjustable to match a desired confidence value to allow transition from a state where manual routing is favored to a state that favors automatic routing.

18. (Canceled)